

index-property1^{0,22}

$\forall E, X_1, X_2:\text{Type}, dE:\text{EqDecider}(E), dL:\text{EqDecider}(\text{IdLnk}), pred?:(E \rightarrow (E + \text{Unit})),$
 $info:(E \rightarrow (\text{Id} \times X_1 + (\text{IdLnk} \times E) \times X_2)),$
 $p:(\forall e:E, l:\text{IdLnk}.$
 $\exists e':E.$
 $\forall e'':E.$
 $\text{rcv?}(e'')$
 $\Rightarrow \text{sender}(e'') = e$
 $\Rightarrow \text{link}(e'') = l$
 $\Rightarrow e'' = e' \vee e'' < e' \ \& \ \text{loc}(e') = \text{destination}(l) \in \text{Id}.$
 $\text{SWellFounded}(\text{pred!}(e; e'))$
 $\Rightarrow (\forall e:E. \neg \text{first}(e) \Rightarrow \text{loc}(\text{pred}(e)) = \text{loc}(e) \in \text{Id})$
 $\Rightarrow (\forall e, e':E. \text{loc}(e) = \text{loc}(e') \in \text{Id} \Rightarrow \text{pred?}(e) = \text{pred?}(e') \Rightarrow e = e')$
 $\Rightarrow (\forall e:E, l:\text{IdLnk}, n:\mathbb{N}_{< \|\text{receives}(dE; dL; pred?; info; p; e; l)\|}.$
 $\exists e':E.$
 $\text{rcv?}(e') \ \& \ \text{link}(e') = l \ \& \ \text{sender}(e') = e \ \& \ \text{index}(dE; dL; pred?; info; p; e') = n \in \mathbb{Z})$